

WATER RESOURCE PLANNING YELM, WASHINGTON

WATER RESOURCES JOINT LEGISLATIVE TASK FORCE

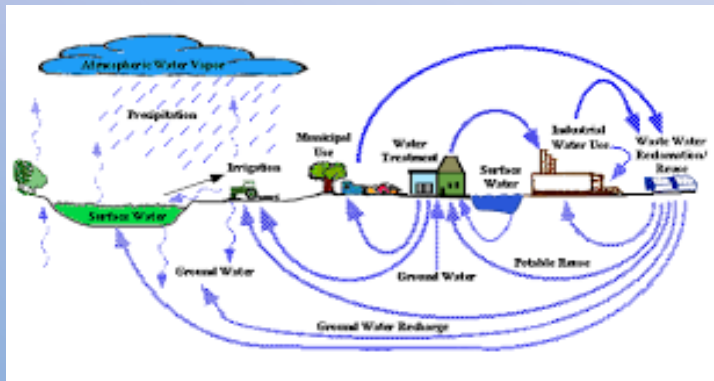
SEPTEMBER 10, 2019



YELM WATER RIGHTS STATUS

WHY DO WE NEED WATER RIGHTS?

- GROWTH MANAGEMENT ACT (GMA)
- CURRENT POPULATION 9700 IN 2019, WITH PROJECTED GROWTH TO 25,600 BY 2040
- 208 CONNECTIONS REMAINING BEFORE A MORATORIUM MUST BE CONSIDERED



CURRENT MITIGATION ALTERNATIVES

IN-KIND

AVOIDANCE OF IMPACTS TO WATER BODIES SUBJECT TO
MINIMUM IN-STREAM FLOW RULES

OUT OF KIND MITIGATION

WATER RIGHTS ACQUISITION & TRANSFER
TO MUNICIPAL WATER RIGHTS

GROUND WATER RECHARGE



PRIORITIZING THE WATER RECLAMATION FACILITY

WE HOLD OURSELVES TO A HIGHER WATER QUALITY STANDARD

HELPED ECOLOGY DEVELOP TODAY'S STANDARDS AND DEMONSTRATED THE POSITIVE USES OF RECLAIMED WATER

FIRST RECLAIMED WATER PLANT
WASHINGTON STATE (1999)

AGE AND DETERIORATION OF THE
PLANT IS STARTING TO SHOW!



IMPROVEMENTS TO DATE

COMPLETED PHASE 1

- REPLACED OBSOLETE SCADA (CONTROL SYSTEMS) AND AGING ELECTRICAL
 - REESTABLISHED NEEDED OPERATIONAL CON
- ELIMINATED SINGLE POINTS OF FAILURE (PUMPS, CONTROL PANELS, ETC.)
- REPLACED BOOSTER PUMP STATION TO DISTRIBUTE RECLAIMED WATER

TOTAL COST PHASE 1 = \$1.2 MILLION



FUTURE INNOVATIONS

CERAMIC PLATE MBG SYSTEM PROPOSED, FIRST IN WASHINGTON STATE!

PHASE II

- REPLACE AGING INFRASTRUCTURE TO IMPROVE OPERATIONS AND SAFETY HAZARDS
- IMPROVE ENERGY EFFICIENCY (SOLAR & OVERALL POWER USE)
- DECREASE THE COST OF OPERATIONS & MAINTENANCE
- CONSTRUCTED BY 2022, \$10.2 MILLION

PHASE III

- FINAL IMPROVEMENTS TO MEET 1.22 MGD HYDRAULIC CAPACITY AND REPLACE AGING SOLIDS HANDLING EQUIPMENT
- EXPAND MBR SYSTEM IN THIS PHASE TO MEET GROWTH NEEDS AT LOWER CONSTRUCTION COSTS
- CONSTRUCTED BY 2027, \$11.5 MILLION

PHASE IV

- PRODUCE A CLASS A BIOSOLID
- CONSTRUCTED BY 2032, \$4.3 MILLION
- TOTAL ANTICIPATED COST = \$27 MILLION



CHALLENGES

STAYING INNOVATIVE WHILE BEING MINDFUL OF COSTS & RATES

- CURRENT CUSTOMER BASE IS PRIMARILY RESIDENTIAL WHICH IN TURN CAN PRODUCE HIGH OPERATING COSTS AS OUR COMMUNITY GROWS
- CURRENT SEWER RATES PUT YELM NEAR THE 75TH PERCENTILE FOR COMPARABLE UTILITIES

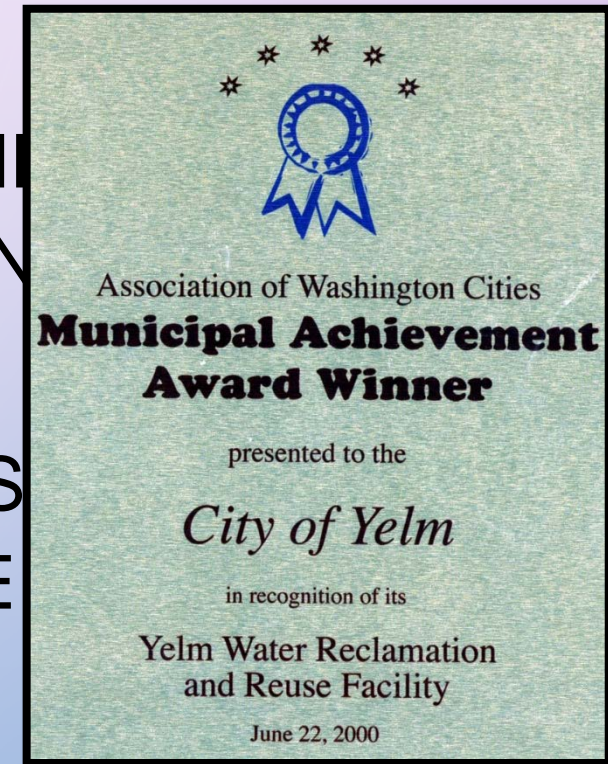


GOALS

STAY INNOVATIVE AND CONTINUE THE LEGACY OF
WORKING TO IMPROVE WATER QUALITY

CONTINUE POSITIVE AND PRODUCTIVE PARTNERSHIPS
WITH DOE, EPA, AND OUR TRIBAL PARTNERS IN
RESOURCE MANAGEMENT

WORK TO GARNER CONTINUED LEGISLATIVE SUPPORT
TO FUND MORE INNOVATION IN YELM TO BENEFIT
OUR NATURAL RESOURCES



QUESTIONS?

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